



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,972	10/15/2003	James D. Beasom	INT-009ADIV	7103

23646 7590 09/14/2005

BARNES & THORNBURG
750-17TH STREET NW
SUITE 900
WASHINGTON, DC 20006

EXAMINER

MULPURI, SAVITRI

ART UNIT	PAPER NUMBER
----------	--------------

2812

DATE MAILED: 09/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

**Supplemental
Notice of Allowability**

Application No.

10/685,972

Examiner

Savitri Mulpuri

Applicant(s)

BEASOM, JAMES D.

Art Unit

2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/10/2005 and exa.amdt 8/31/2005.
2. ☒ The allowed claim(s) is/are 1-7,9,10,15,17,18,20-29 and 31-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Palan on 8/31/2005.

The application has been amended as follows:

In claim 1:

In step a) line 2 after "diffusion" add ---by implanting and diffusing said first majority dopant----

In step a) line delete "and"

In step b) line 1 after "buried layer " add --- extending into the N⁺ type buried layer and -----

In step b) line 3 after "diffusion" add --- by implanting and diffusing said second majority dopant; ----

After step b) add as separate step

----- c) forming an N type epitaxial layer on said non selective N⁺ type buried layer; and

d) forming a P well extending from said selective P⁺ type buried layer through said N type epitaxial layer.

Cancel claim 8

In claim 9, line 1 replace "8" with ---1---

In claim 9, line 2 replace "N" with -- N⁺ ---

In claim 9, line 2 before "layer" add --- epitaxial---

In claim 10, line 2 after "N type" add ---epitaxial---

Cancel claim 11 -14

In claim 15, line 1 replace "14" with -1---

Cancel claim 16

In claim 17, line 1 replace "16" with ---1---

In claim 17, line 2 after "N type" add ---- epitaxial---

Cancel claim 19

In claim 20, line 1 replace "19" with -1---

In claim 21, line 1 replace "19" with -1---

In claim 21 line 2 delete "additional" and replace "an" with --- the N-type---

In claim 26 :

In step e) , line 2 after "buried layer" add ---extending into the N⁺ type buried layer----

After step e) add as separate step

----- f) forming an N type epitaxial layer on said non selective N⁺ type buried layer; and

g) forming a P well extending from said selective P⁺ type buried layer through said N type epitaxial layer.

Cancel claim 30

In claim 31, line 1 replace "30" with -26---

In claim 31, line 2 before "layer" add - epitaxial---

Cancel claims 57- 65

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Monday to Friday 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Savitri Mulpuri

Application/Control Number: 10/685,972
Art Unit: 2812

Page 5

Primary Examiner
Art Unit 2812